

To: CN=Rick Wilkin/OU=ADA/O=USEPA/C=US@EPA[]
Cc: []
Bcc: []
From: CN=Patrick DeArmond/OU=LV/O=USEPA/C=US
Sent: Mon 6/25/2012 3:05:10 PM
Subject: Re: Pavilion WY ethoxylate, alkylphenol, acrylamide results

Hi Rick,

Attached are a few journal articles containing example concentrations of NP in the environment. The "critical review" pdf reviews all types of waters, sediments, fish, etc, and ranges of values from various locations are found in Table 1 in the back of the manuscript. Maybe in about 50% of water samples, alkylphenols are not detected. Then, in the ones that they are detected, the values usually range in the sub-ppb up to 1-2 ppb. However, I've seen higher values. Its hard to say what a typical value would be. I can easily come up with many more references for you if you would like, these are just some random ones I've got easily accessible.

As for the OP ethoxylate, that isn't included in the table. However, in the text, I state that no cal std was available. That is due to the fact that at the time, we had an old std of OP ethoxylate, but I believe it has since degraded, as there is absolutely nothing that we see in the mass spectrum of it. Additionally, you can't just buy OP ethoxylate stds. Since analysis, I have rummaged around and found Triton X-100, which is a detergent whose primary ingredient is OP ethoxylate, and will begin playing around with that as soon as we get our instrument fixed again. However, I state in the report that the only sample that we detected OP ethoxylate was EPA MW01-0412 and that, based on NPEOx cal curve, the estimated concentration would be between 1-2 ppb in that sample.

Thanks for the heads up about the data packages, that won't be a problem. Just curious, what all goes in the data packages, chromatograms, mass spectra, tables of values? All of the above?

Thanks Rick,

And let me know if you need anything else

Patrick

[attachment "ultratrace quantification of np lcms.pdf" deleted by Rick Wilkin/ADA/USEPA/US] [attachment "trace determination of NP by SPE and gcms.pdf" deleted by Rick Wilkin/ADA/USEPA/US] [attachment "lcmsms np.pdf" deleted by Rick Wilkin/ADA/USEPA/US] [attachment "NP_critical review.pdf" deleted by Rick Wilkin/ADA/USEPA/US]

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From: Rick Wilkin/ADA/USEPA/US
To: Patrick DeArmond/LV/USEPA/US@EPA
Date: 06/24/2012 10:28 AM
Subject: Re: Pavilion WY ethoxylate, alkylphenol, acrylamide results

Hi Patrick - I think there is going to be a push to receive all of the raw data packages for the Pavillion samples - as a heads up.

Also, I have been trying to make some sense of these analyses. Did the report include values for octylphenol ethoxylates? Is that listed as octylphenol (OP)?

What have you come across in the literature about the natural occurrence of OP and NP?

Rick

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From: Patrick DeArmond/LV/USEPA/US
To: Rick Wilkin/ADA/USEPA/US@EPA
Cc: Brian Schumacher/LV/USEPA/US@EPA, David Jewett/ADA/USEPA/US@EPA
Date: 06/06/2012 09:14 AM
Subject: Pavilion WY ethoxylate, alkylphenol, acrylamide results

Hi Rick,

Attached is the report from Las Vegas on the ethoxylates, alkylphenols, and acrylamide results.

When you need raw data, please let me know. If you have any questions, please contact me.

Thanks

Patrick
[attachment "April2012 Pavilion WY Reportx.pdf" deleted by Rick Wilkin/ADA/USEPA/US]
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